

CLAIMS:

1. An inkjet recording element comprising a support having thereon a non-porous ink-receiving layer comprising a hydrophilic binder and
5 particles of a synthetic, substantially amorphous aluminosilicate material in an amount of at least 5 weight percent and less than 30 weight percent, based on the solids weight of the ink-receiving layer, the synthetic, substantially amorphous aluminosilicate material having an average diameter, as primary particles, of 1 to 10 nm, wherein the synthetic, substantially amorphous aluminosilicate material
10 exhibits an X-ray diffraction pattern that comprises weak peaks at about 2.2 and 3.3 Å.
2. The inkjet recording element of claim 1 wherein the hydrophilic binder comprises poly(vinyl alcohol).
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3. The inkjet recording element of claim 1 wherein the inkjet recording element further comprises a base layer located between the ink-receiving layer and the support.
- 20 4. The inkjet recording element of claim 1 wherein the inkjet recording element further comprises an overcoat.
5. The inkjet recording element of claim 1 wherein the synthetic, substantially amorphous aluminosilicate particles are substantially in the form of
25 hollow spheres.
6. The inkjet recording element of claim 1 wherein the synthetic, substantially amorphous aluminosilicate material is a synthetic allophane with essentially no iron atoms.
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7. The inkjet recording element of claim 1 wherein the synthetic, substantially amorphous aluminosilicate material is a synthetic allophane having a positive charge.

5 8. The inkjet recording element of claim 1 wherein the synthetic, substantially amorphous particles comprise a polymeric aluminosilicate having the formula:



where the ratio of x:y is between 0.5 and 4, a and b are selected such that the rule
10 of charge neutrality is obeyed; and n is between 0 and 10.

8. The inkjet recording element of claim 7 wherein the synthetic, substantially amorphous aluminosilicate comprises organic groups.

15 10. The inkjet recording element of claim 7 wherein the synthetic, substantially amorphous aluminosilicate has the formula:

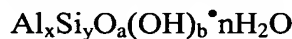


where the ratio of x:y is between 1 and 3.6, and a and b are selected such that the
rule of charge neutrality is obeyed; and n is between 0 and 10.

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11. The inkjet recording element of claim 1 wherein the average particle size of the synthetic, substantially amorphous particles is in the range from about 3 nm to about 6 nm.

25 12. The inkjet recording element of claim 1 wherein the synthetic, substantially amorphous aluminosilicate material is represented by the formula:



where the ratio of x:y is between 1 and 3.6, and a and b are selected such that the
30 rule of charge neutrality is obeyed; and n is between 0 and 10.

13. The inkjet recording element of claim 1 wherein the ink-receiving layer comprises a binder in the amount of at least 80 weight percent based on total solids.

5 14. The inkjet recording element of claim 1 where the ratio of hydrophilic binder to the aluminosilicate particles is about from about 95:5 to about 70:30.

10 15. An inkjet printing method, comprising the steps of:
A) providing an inkjet printer that is responsive to digital data signals;
B) loading the inkjet printer with the inkjet recording element of Claim 1;
C) loading the inkjet printer with an inkjet ink; and
15 D) printing on the inkjet recording element using the inkjet ink in response to the digital data signals.